

Work Order ID 135990

135990

Page 1

August 26, 2015 3:33:50 PM

Item ID: D206-642-351

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Replacement Skidtube, Low & High Gear, Run-on Landing Wearplates Fits LH or RH

Start Date: 8/26/2015 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 9/2/2015 Req'd Qty: 1.00 *1*

Customer:

Reference:

Approvals: Process Plan: SH Date: 20150827 Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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D4361-041	A
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IIN-D206-642	Q
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100	Document Control	0.00
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100

DC	Memo	0.00
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Doc.Control -USB or Paperwork Photocopy bluefile and create labels per PPP D206-642-351 CHG001

N/A MJS SEP 18 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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Item ID: D206-642-351

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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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110

0.00

110

Skidtubes

0.01

Skidtubes

Memo

1-Deburr Fwd edge of tube

2-Remove ridge on inside of Fwd edge of tubeas per Dwg D4361

3-Weld Fwd Cap as per Dwg D4361 Use aluminum rod. Grind D2647 to fit as required.

A/RAluminum Rod m131562

4-Grind weld flush to cap on top surface only.

5-Cut aft end to lenght as per dwg D4361

6-Drill pilot holes using drill Jig DT8168A and DT8168B and DT8025. Most Fwd wearplate hole to be laid out manually.

8-Open Aft Cap Hole using # Drill Bit

9-Open holes for Tow Ring to Ø0.625" as per Dwg D4361, D4361-041 Drilling Detail

10-Remove inner indexing ridge on aft end of skidtubeas per Dwg D4361

11-Deburr and Blow out all chips form inside the tube

> DEL 15-8-31

> BE15-08-01

} DEL 15-9-2.

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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

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Approvals: **Process Plan:** **Date:** **Tooling:** **Date:**

Run Start *NR1*

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Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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115 QC5- Inspect part completeness to step on W/O

0.00

115

QC Memo

0.00

Quality Control

DAS
38
9-89
SEP 02 2015

120 Chemical Conversion Coat per QSI005 4.1

0.00

120

HandFinish Memo

0.01

Hand Finishing

1 15-9-3 Doc

125 QC7-Inspect Chemical Conversion Coat

0.00

125

QC Memo

0.00

Quality Control

DAS
18
9-59

1 0 150209

DQA: _____ Date: _____



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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
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Customer:

Reference:

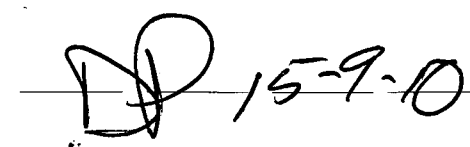
Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Skidtubes	0.00				1	0	8215-09-09	
130									
Skidtubes	Memo	0.01							
Skidtubes	1-Open holes to finished size as per Dwg D4361, D4361-041 Drilling Detail								
	2-Countersink crossbolt spacer holes as per Dwg D4361								
	3-Deburr. Blow out chips. Grind alodine off around crossbolt spacer.								
	4-Bond D2654-5 web in place as per QSI 015, Ensure holes line up. Allow 12 Hrs. cure time								
	Start Date: <u>15-09-09</u> Time: _____								
	Finish Date: _____ Time: _____								
	A/R Sikaflex-291: <u>m132705</u>								
	Sikaflex expiry date: <u>16-02-12</u>								
140	QC5- Inspect part completeness to step on W/O	0.00							
140									
QC	Memo	0.00							
Quality Control									



DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
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Run Start ***NR1***

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Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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150

0.00

150

Skidtubes

Skidtubes

Memo

0.03

1-Prep per QSI 005 and Insert cross bolt spacers D2649. Weld as per QSI 004 and Dwg D4361. Remember to back drill each hole to 0.25" before welding the other side. Use aluminum rod.
A/RAluminum Rod M13562

2-Grind welds flush as per Dwg D4361.

3-Counterbore 5/16" x 0.750" deep as per Dwg D4361. Deburr

4- Install nut plate as per dwg

170

QC10- Inspect visual per QSI004- ground welds 0.00

170

QC

Memo

0.00

Quality Control

DAS
38
9-89

SEP 14 2015

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
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 QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
180 *180* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.00				1			DAS 38 9-22 SEP 14 2015
190 *190* HandFinish Hand Finishing	Pressure Wash per QSI005 4.3 Memo AND ALODINE ONLY AS PER QSI005	0.00 0.01				1	0	15-9-14	Doc
200 *200* Powdercoat Powder Coating	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum M 131543. Memo Make sure Nut Plate Thread is protected using paint screw, and mask GHW studs. START TIME: 11:15 OVEN TEMPERATURE: 300 FINISH TIME: 11:45	0.00 0.01				1	0	15-9-16	33 34 35

DQA: _____ Date: _____



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Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
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210	QC3- Inspect Part Finish	0.00							
210									
QC	Memo	0.00							
Quality Control									
220	HandFinishing	0.00							
220									
HandFinish	Memo	0.02							
Hand Finishing	1-Install wearplates as per dwg D4361.								
	2-Install O-Rings D2651-3 on plugs D2651-1 with Petroleum Jelly and install plugs as per Dwg D4361. Clean excess adhesive								
	3-Install MS27039-4-06 Screw								
	4-Inspect for foreign object per QSI 024								
	5-Install D2646 Aft Cap and seal with SikaflexClean excess adhesive								
	A/RSikaflex-291								
	Sikaflex expiry date:								
	6-Wing Walk as per Dwg D4361-041 and QSI 005 4.4								
	Batch:								

DAS
15
9-89

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				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Work Order ID 135990

135990

Page 8

August 26, 2015 3:33:51 PM

Item ID: D206-642-351

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Replacement Skidtube, Low & High Gear, Run-on Landing Wearplates Fits LH or RH

Start Date: 8/26/2015 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 9/2/2015 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
230	QC3- Inspect Part Finish	0.00							DAS 38 9-89
230									
QC	Memo	0.00				/			
Quality Control								SEP 16 2015	
240	QC5- Inspect part completeness to step on W/O	0.00							DAS 38 9-89
240									
QC	Memo	0.00				/			
Quality Control								SEP 16 2015	
250	Packaging	0.00							DAS 02 9-89
250									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D206-642-351								
	Location : FG083								

PPB 135980

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Large Fab ☐	Composite ☐	Supplier ☐																			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval																	
Description Work Order Deviation		Disposition		Completed By																	
				Lead hand / Supervisor Approval Verification																	
				QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																			
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OTHER :																					

Work Order ID 135990***135990***

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Item ID: D206-642-351

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Replacement Skidtube, Low & High Gear, Run-on Landing Wearplates Fits LH or RH

Start Date: 8/26/2015 Start Qty: 1.00

1

Cust Item ID:

Required Date: 9/2/2015 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

260 QC21- Final Inspection - Work Order Release

0.00

260

QC

Memo

0.00

Quality Control

MCJ SEP 16 2015

MCJ SEP 16 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☒ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
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OTHER : ☐																																																																				

Picklist Print

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Page 1

Work Order ID: 135990

135990

Parent Item: D206-642-351

D206-642-351

Parent Item Name: Replacement Skidtube, Low & High Gear, Run-on Landing Wearplates Fits LH or RH

Start Date: 8/26/2015

Required Date: 9/2/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A NEW ISSUE 12-07-09 JLM VERIFIED BY:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2620		Manufactured	No				Each	3.0000		1			

D2620

Skidtube, 206 Skidtube

Location	Loc Qty	Loc Code
LG002	3	
126930	1	
135726	2	
	Each	1.0000

D2654-5

Manufactured No

D2654-5

Web

Location	Loc Qty	Loc Code
LG002	1	
132476	1	
	Each	53.0000

D2646

Manufactured No

D2646

Aft Cap

Location	Loc Qty	Loc Code
FG	4	
85848	2	
90495	2	
FP001	49	
103306	1	
114495	1	
127924	3	
128761	1	
132325	16	
132326	27	

1 DBL 15-8-31

1 BLD 09-09

1 all 10/09/16

XC

Picklist Print

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Page 2

Work Order ID: 135990

135990

Parent Item: D206-642-351

D206-642-351

Parent Item Name: Replacement Skidtube, Low & High Gear, Run-on Landing Wearplates Fits LH or RH

Start Date: 8/26/2015

Required Date: 9/2/2015

D2647 Manufactured No

Each 8.0000

Start Qty: 1.00

Required Qty: 1.00

D2647

Cap

**

BE 15-0831

Location

Loc Qty

Loc Code

LG001

8

134879

8

Each

33.0000

23

**

*BE 15-0910
B 135588 *23*

D2649 Manufactured No

D2649

Cross Bolt Spacer

Location

Loc Qty

Loc Code

LG

20

131103

20

LG001

13

132730

13

Each

214.0000

4

**

all 15/09/11

D2651-1 Manufactured No

D2651-1

Plug

Location

Loc Qty

Loc Code

FP001

214

131695

30

132398

14

134571

120

135364

50

Each

324.0000

4

**

all 15/09/11

D2651-3 Manufactured No

D2651-3

O-Ring

Location

Loc Qty

Loc Code

FP001

324

113577

16

120110

208

135359

100

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Page 3

Work Order ID: 135990

135990

Parent Item: D206-642-351

D206-642-351

Parent Item Name: Replacement Skidtube, Low & High Gear, Run-on Landing Wearplates Fits LH or RH

Start Date: 8/26/2015

Required Date: 9/2/2015

D2680-041

Manufactured No

Each

12.0000

Start Qty: 1.00

Required Qty: 1.00

D2680-041

Nut Plate

**

1

DD 15-9-14

Location

Loc Qty

Loc Code

LG

12

129083

12

Each

8.0000

**

18

all 150616

D3873-1

Manufactured No

D3873-1

Bushing

Location

Loc Qty

Loc Code

FP001

2

126709

2

ST063

6

134885

6

Each

0.0000

**

1

B130589(1x) all 150616

D4364-041

Manufactured No

D4364-041

Run-on Landing Wearplate Fwd

D4364-043

Manufactured No

Each

1.0000

**

1

B130590(1x) all 150616

D4364-043

Run-on Landing Wearplate Aft

Location

Loc Qty

Loc Code

FP002

1

125331

1

Picklist Print

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Page 4

Work Order ID: 135990

135990

Parent Item: D206-642-351

D206-642-351

Parent Item Name: Replacement Skidtube, Low & High Gear, Run-on Landing Wearplates Fits LH or RH

Start Date: 8/26/2015

Required Date: 9/2/2015

AN3-36A Purchased No

Each 65.0000

Start Qty: 1.00

Required Qty: 1.00

AN3-36A

Bolt

**

all 15/09/12

Location

Loc Qty

Loc Code

ST338a

25

m133011

25

ST347

40

m131957

40

x9

NAS1149C0332R Purchased No

Each 4,681.000

NAS1149C0332R

WASHER

**

all 15/09/12

Location

Loc Qty

Loc Code

FP001

2140

m130325

2140

x9

GA

213

m131618

213

ST260a

2000

m132930

2000

ST271

328

m129390

72

m132262

256

MS21042-3 MS21042L3 Purchased No

Each 549.0000

MS21042-3

Nut / use MS21042L3

**

all 15/09/12

Location

Loc Qty

Loc Code

CA

501

M129682

501

M130922

19

ST305

48

M128770

10

M129541

15

M130388

23

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Shop Packet Print

Page 4

Picklist Print

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Page 5

Work Order ID: 135990

135990

Parent Item: D206-642-351

D206-642-351

Parent Item Name: Replacement Skidtube, Low & High Gear, Run-on Landing Wearplates Fits LH or RH

Start Date: 8/26/2015

Required Date: 9/2/2015

NAS1149D0332J

Purchased

No

Each

Start Qty: 1.00
2,050.000

2

Required Qty: 1.00

NAS1149D0332.J

Washer

**

all is order

Location

Loc Qty

Loc Code

CA	14	
m129682	14	
GA	548	
m132677	548	
ST269	1488	
m130325	900	
m131624	36	
m132677	552	

x2

CCR264SS3-3

CCR264SS-3-03

Purchased

No

Each

0.0000

CCR264SS3-3

Cherry Rivet

CR3212-4-3

Purchased

No

Each

0.0000

CR3212-4-3

Cherry Rivet

MS27039-1-08

Purchased

No

Each

704.0000

MS27039-1-08

Screw

**

2 15-9-14

**

2 15-9-14

**

all is order

Location

Loc Qty

Loc Code

CA	96	
m128636	96	
FP001	363	
m128636	363	
GA	2	
125654	2	
ST285	243	
m128636	243	

x2

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Shop Packet Print

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Picklist Print

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Page 6

Work Order ID: 135990

135990

Parent Item: D206-642-351

D206-642-351

Parent Item Name: Replacement Skidtube, Low & High Gear, Run-on Landing Wearplates Fits LH or RH

Start Date: 8/26/2015

Required Date: 9/2/2015

MS27039-4-06

Purchased

No

Each

Start Qty: 1.00
100.0000

Required Qty: 1.00

MS27039-4-06

Screw

**

all 12/10/14

Location

Loc Qty

Loc Code

FP001

95

m132317

95

ST283

5

m126534

5

NAS1149D0463J

Purchased

No

Each

2,652.000

1

NAS1149D0463.J

WASHER

**

all 12/10/14

Location

Loc Qty

Loc Code

GA

41

M129390

41

ST260a

1000

M132677

1000

ST269

1611

M129682

86

M130799

371

M132035

1029

M132317

125

XC

QTY -041	QTY -043	PART NUMBER	DESCRIPTION
X		D4361-041	SKIDTUBE ASSY
	X	D4361-043	SKIDTUBE ASSY
1	1	D2600-1-160	EXTRUSION
1		D2654-5	WEB
	1	D2654-7	WEB
1	1	D2646	AFT CAP
1	1	D2647	CAP
23	26	D2649	CROSS BOLT SPACER
4	8	D2651-1	PLUG
4	8	D2651-3	O-RING
1	1	D2680-041	NUT PLATE
18	20	D3873-1	BUSHING
1		D4364-041	FWD WEARPLATE ASSY
1		D4364-043	AFT WEARPLATE ASSY
	1	D4366-041	FWD WEARPLATE ASSY
	1	D4366-043	AFT WEARPLATE ASSY
9	10	AN3-36A	BOLT
9	10	NAS1149C0332R	WASHER (OR AN960C10L)
9	10	MS21042-3	NUT
2	2	NAS1149D0332J	WASHER (OR AN960JD10L)
2	2	CCR264SS3-3	RIVET
2	2	CR3212-4-03	RIVET
2	2	MS27039-1-08	SCREW
1	1	MS27039-4-06	SCREW
1	1	NAS1149D0463J	WASHER (OR AN960JD416)

NOTES:

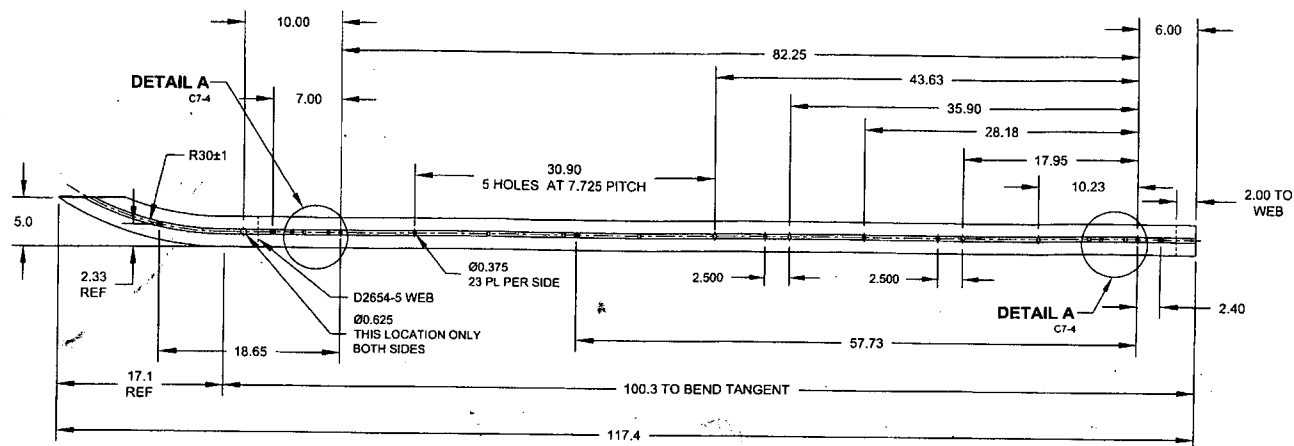
- 1) MATERIAL: N/A
- 2) FINISH: -CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIOR TO INSTALLING D2654-5/-7 WEB
-POWDER COAT WHITE (REF 4.3.5.1) PER DART QSI 005 4.3
-BLACK ANTI-SKID PAINT AS INDICATED TO 0.5 ABOVE LOCATION RIDGE PER DART QSI 005 4.4
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: D4361-041 = 37.5 LBS
D4361-043 = 44.3 LBS
- 8) WELD PER DART QSI 004
- 9) DAMAGE TOLERANCE ON FWD BEND:
THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 5 INCHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0.020 DEEP IN THE BENT PORTION OF THE TUBE.
A MAXIMUM REDUCTION IN DIAMETER OF 0.150" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.
- 10) BOND WEB INTO OUTER TUBE WITH SIKAFLEX-241/-291 ADHESIVE PER DART QSI 015
- 11) INSERT D2651-1 PLUG C/W D2651-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE)

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2011-09-12

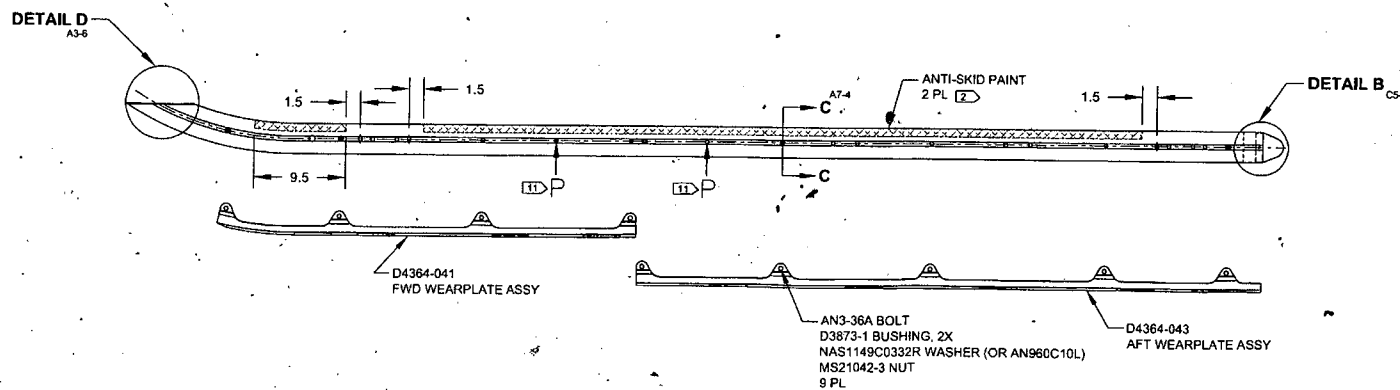
135 980

GA 20150829

A	NEW ISSUE	SC	11.05.05
REV.	DESCRIPTION	BY	DATE
DESIGN	SC	DART AEROSPACE USA, INC	
DRAWN	SC	PORT HADLOCK, WA	
CHECKED	9	DRAWING NO.	REV. A
MFG. APPR.	8	D4361	SHEET 1 OF 4
APPROVED	10	TITLE	SCALE
DE APPR.	11	206L/407 SKIDTUBE ASSEMBLIES	NTS
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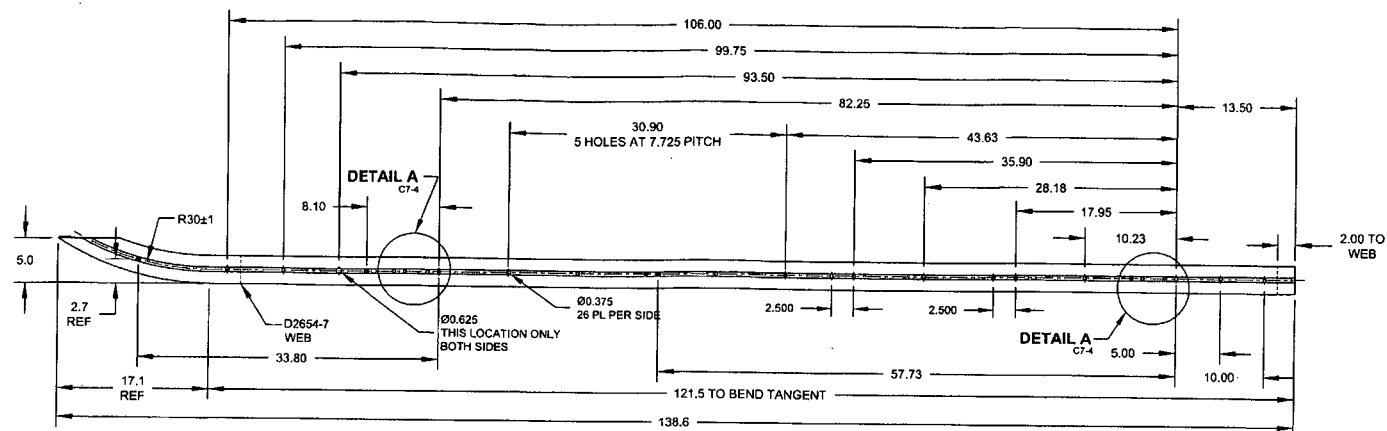
D4361-041 BENDING/DRILLING DETAIL



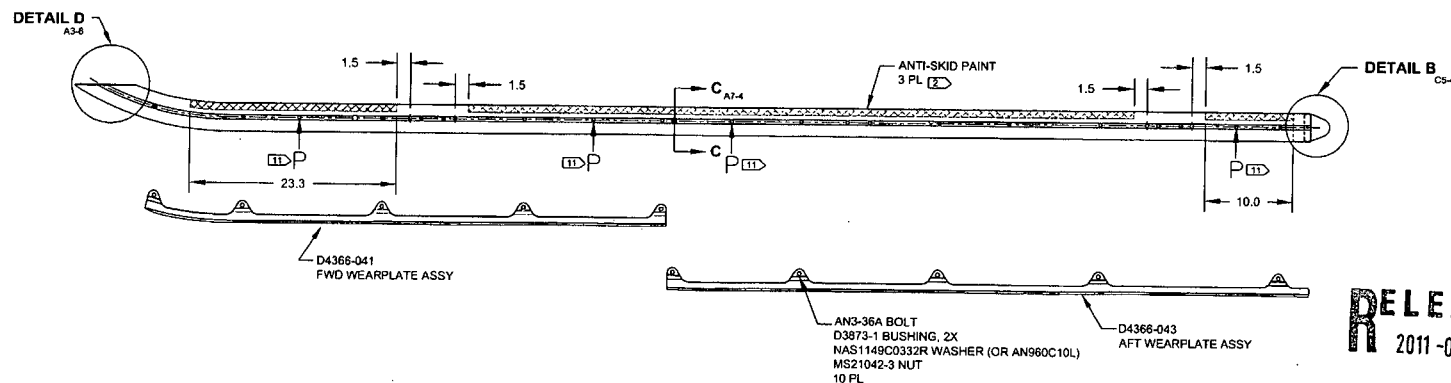
D4361-041 ASSEMBLY/FINISHING DETAIL

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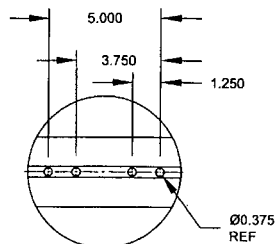


D4361-043 BENDING/DRILL DETAIL



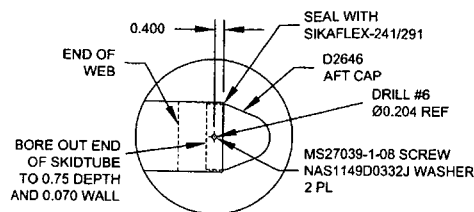
D4361-043 ASSEMBLY/FINISHING DETAIL

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DRAWN	SC		
CHECKED	<i>9</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>B</i>	D4361	SHEET 3 OF 4
APPROVED	<i>10</i>	TITLE	SCALE
DE APPR.	<i>11</i>	206L/407 SKIDTUBE ASSEMBLIES	NTS
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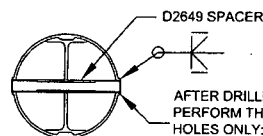
DETAIL A

C3-2
D7-2
C3-3
D6-3



DETAIL B

B2-2
B1-3

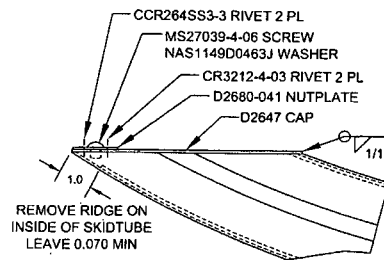


AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.375
HOLES ONLY:
1. CHAMFER HOLE 0.030 X 45°
2. INSERT D2649 SPACER
3. WELD INTO PLACE AND GRIND FLUSH
4. CBORE TO Ø0.313 X 0.75 DP

SECTION C-C
FOR Ø0.375 HOLES
ONLY

B4-2
B5-3

ORIENTATION OF
D2680-041



DETAIL D

B7-2
B7-3

DETAIL D NOTES:

1. CUT TUBE LEVEL
2. REMOVE RIDGE ON FWD SIDE
3. LOCATE D2647 (TRIM AS NECESSARY)
4. WELD D2647 IN PLACE PER DART QSI 004
5. GRIND FLUSH
6. RIVET D2680-041 NUT PLATE IN PLACE

NOTE: MASK THREADS IN D2680-041 PRIOR TO FINISH

RELEASED
R 2011-09-12
JP

DESIGN	SC	DART AEROSPACE USA, INC	
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CHECKED	JP	DRAWING NO.	REV. A
MFG. APPR.	JP	D4361	SHEET 4 OF 4
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